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[illegible] — [illegible] '[illegible], [illegible]

[illegible] '[illegible], [illegible]

1.1 — [illegible]

1. 30 [illegible] (WGS) [illegible] — Nebula Genomics, Dante Labs, Sequencing.com [illegible] '[illegible] VCF [illegible]: 23andMe [illegible] Ancestry [illegible] '[illegible], [illegible] Genetic Genie [illegible] MTHFR [illegible] COMT [illegible]
2. `biohacker_multi_domain_profiler.py` [illegible] VCF [illegible] '[illegible]: `python3 biohacker_multi_domain_profiler.py your_genome.vcf`
3. [illegible] 16 [illegible] (biohacker_final_edition_with_json_import.html)[illegible], [illegible]-[illegible]
4. [illegible] CYP450 [illegible] '[illegible]/[illegible]' [illegible]
5. [illegible] '[illegible]

1.2 — [illegible]

[illegible]	[illegible]	[illegible]
MTHFR C677T/A1298C	[illegible], [illegible] = 30-40% [illegible]	[illegible]: [illegible] MTHFR [illegible] ([illegible] 3) [illegible] '[illegible]

	[illegible] 10 [illegible]	
CYP2D6 [illegible]	[illegible], [illegible] '[illegible] 2-3 [illegible]	[illegible]: MDMA [illegible] '[illegible]' [illegible] 25-33% [illegible]
CYP2B6 *6: [illegible]	[illegible], [illegible]-[illegible]	[illegible] "[illegible]" [illegible], [illegible] "[illegible]" [illegible], [illegible]
GABRA2 [illegible]	[illegible] "[illegible]" [illegible] — [illegible] GABA-A [illegible]	[illegible] GABRA2 [illegible]: [illegible] '[illegible]' [illegible]
ALDH2 *2	[illegible]: 30-50% [illegible]—[illegible] '[illegible], [illegible]	[illegible] ALDH2 *2 [illegible]: [illegible], [illegible], [illegible]
AKT1 T/T	CB1 [illegible] (psychosis) [illegible]	[illegible] AKT1 T/T [illegible]: [illegible] '[illegible], [illegible]
G6PD [illegible]	[illegible]/[illegible],	[illegible] G6PD [illegible]: [illegible] "[illegible]" [illegible], [illegible]

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2.2 — [illegible]

[illegible] '[illegible], [illegible]:

[illegible]	[illegible] '[illegible]?	[illegible] ([illegible] -[illegible])[illegible]	[illegible]
MDMA ([illegible])	CYP2D6 [illegible] ([illegible] 10 [illegible] 1)[illegible] SLC6A4 [illegible]/[illegible] ([illegible])[illegible] MTHFR [illegible] ([illegible])[illegible]	[illegible] CYP2D6 [illegible] → [illegible] '[illegible] 2-3 [illegible] SLC6A4 → [illegible] MTHFR → [illegible]-[illegible]	[illegible] (MDMA) [illegible], [illegible] CYP2D6 [illegible]: [illegible] 25-50% [illegible], [illegible], [illegible]-[illegible] 3 [illegible] SLC6A4 [illegible]/[illegible]: EGCG [illegible]-[illegible]
[illegible]	GABRA2 [illegible] ([illegible])[illegible] ALDH2 *2 ([illegible] -[illegible]). MTHFR [illegible] ([illegible]/[illegible]-[illegible])[illegible]	GABRA2 → [illegible] — [illegible] ALDH2 → [illegible], [illegible] '[illegible] MTHFR → [illegible], [illegible], [illegible]	GABRA2 [illegible]: [illegible], [illegible] '[illegible]' [illegible] GABA [illegible] ALDH2 *2: [illegible] — [illegible] 1 [illegible]
[illegible]	MTHFR [illegible] ([illegible])[illegible] ([illegible] '[illegible]	[illegible] + [illegible] = [illegible], [illegible]	[illegible]

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- [illegible]: [illegible] CYP3A4 [illegible] [illegible] MDMA [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible]—[illegible], [illegible]	[illegible] (Hyperthermia) MDMA, [illegible] (stimulants), [illegible] (synthetic cathinones) [illegible], [illegible], [illegible], [illegible] '[illegible]-[illegible] '[illegible]—[illegible]
[illegible]-[illegible] 90 [illegible]	[illegible] 30–90 [illegible] 30 [illegible], [illegible] 30 [illegible] 90-[illegible]
GHB [illegible]—[illegible]	[illegible] CNS ([illegible]) [illegible] GHB [illegible] '[illegible], [illegible] '[illegible]—[illegible] GHB [illegible]

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24-72 [illegible]	[illegible], [illegible] 5-MTHF + B12 + B6 [illegible] NAC [illegible]	[illegible]: 5-MTHF, methylcobalamin, NAC, magnesium glycinate, omega-3, B-complex, EGCG [illegible] MDMA [illegible] ([illegible]) [illegible] BDNF [illegible]	[illegible], [illegible] 48 [illegible] MTHFR [illegible] ([illegible]), CYP2D6 [illegible] ([illegible]), [illegible]
72 [illegible] - 2 [illegible]	[illegible] MTHFR [illegible]	[illegible] '[illegible]-[illegible]-[illegible]	[illegible]-MTHFR [illegible] 72 [illegible] MTHFR [illegible], CYP2D6 [illegible], [illegible] NM, MX, EM [illegible]-[illegible] 2 [illegible]

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⚠ **MTHFR [illegible],** [illegible] '[illegible]

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- 5-MTHF [illegible] [illegible] [illegible] 2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible] [illegible] C-28 [illegible] [illegible] [illegible] [illegible] [illegible] '[illegible] [illegible] [illegible]: "[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]" [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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Crisis: call or text 988 | Emergency: 911 | SAMHSA: 1-800-662-4357

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בבבבב בבבבבב בב בבב בבבבב בבבב בב—MDMA, GHB, methamphetamine, cocaine, ketamine—בב בבב בבבבבב בבבבב בבבבב בבבב בבבב בבבבב בבבבבב בב בבב בבב בבבב בבבב בבב בבב בבב בבבב בבב בב בבבבב בב בבבב בבבב בב בבבבבב בב בבב בב בבב בב בבב בבבב בבב בבבבב בבבבב בבבבבבבב בבבבבבב בב, בב בבב בבבבב בבב בבב-בבבב בבבבב בבבבב בבבב בבבבבבב בבבבב בבב בב בבב בבבבבב בבבב בבב בב בבבבבבבבבבבב בבב

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בבבב (MDMA) בבב בבבב בבב	בבבבבבבב בבבבבב, בבבבב בבבב בבבבבב, בבבבבב בבבבב, בבב בב בבבבבבב בבבב בב בבבבבבב בבבבבב בב בבבבב בבבבבבב בבב בבבבבבב בבבב	בב 5-HT בבבבבבבבב בבב בבבב בבבבב בבבב בבבבבבבב בבבבבב בבבב בבב בב בבב בבבבבבב בבב בבבבבבבבבבבב בב בב בבבבבב בבבבב בבב בב בבבבבב בבבבבבבבב בב בבבבבבב בבב בבבבב בבב בבב בבבבבבב 'בב, בב 5-HT2A בבבבבבב בבבבבבב בבב	בבבבבבבבבב 5-HT בבבבבבב בבבבבבבבב SERT בב בבב בבבבב 5-HT בבבבבבבבב בב בבבבבבב (בבבבבבבבב) בב בבבב בבבב בבב MDMA בבב בבב בבב בבבבבב בבבבב בב בבבבבב בב בבבבבבב בבבבבבבב בבב בבבבב בב בבבב בב, בב בבבבב בבב בבב בב בבבבב בבב 'בב בבבב בב בבבבב בבב
GHB	בבבבבבבבבב, בבבבבבבב, בב בבבבב בבבב בב בבבב בבבב בבב בבבב בבב בבב בבבבב בבבבבבב בב בבבבבב בבבבב בב, בבבבבב בב בבבבבבב בבבב בבבבבבבבב בבבבבב	GHB-בבבבבבב בבבבבבב בבבבבבבב + GABA-B בבבבבבבבב בב בבב בבבבבבב בבבב בב בבבבבבבב בבבב בבבבבבבב בבבבבב בבבב בבבב בב בב בבבבבבבבבבבבבב בבב בבבבבב בבב בבבבבב בבבב	בבבבבב (GHB) בב בבבב בבבבבב בבב בבב בבבבב-בב בבבבבבב בבבב בבבבבבבבבבבב בבב בב בבבב בב, בבב בב בב בבבב בב בבבבבבב בבבבבב בב בבבבב בבב בבבב בבב בב בבבב 'בב בבבב בבב בבבבבב בבבבבב בבבב בבב בבב בבבב בבבב בבבבבב בב בבבבב בבב בבבבבבב (MDMA) בבב בבב (meth) בבבבבבב

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Crisis: call or text 988 | Emergency: 911 | SAMHSA: 1-800-662-4357

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[illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]:

* **[illegible] (Antidepressants)**
* **[illegible]-[illegible] [illegible] (Anti-anxiety medications)**
* **[illegible] (Opioids)**
* **[illegible] (Barbiturates)**
* **[illegible] (Benzodiazepines)**
* **[illegible] (Alcohol)**

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[illegible], [illegible]

F.3 — R-5-P: [illegible]-5-[illegible] ([illegible]. [illegible]. [illegible].) — [illegible] MTHFR [illegible]

[illegible] — [illegible]

[illegible], [illegible], [illegible] (GSSG) [illegible] GSSG [illegible] ([illegible]) [illegible] (GSH) [illegible]-[illegible] FAD—[illegible]—[illegible], [illegible] R-5-P [illegible] '[illegible]

R-5-P [illegible]?	[illegible]	[illegible] (שר[illegible])
[illegible]: [illegible] GSSG ([illegible], [illegible]) [illegible] GSH ([illegible]) [illegible] FAD/FMN-[illegible]—[illegible]	[illegible], [illegible], [illegible] NAC [illegible] R-5-P [illegible], [illegible], [illegible]	NAC ([illegible]) + [illegible] ([illegible]) → [illegible] R-5-P ([illegible]) → [illegible]: [illegible], [illegible]-[illegible] R-5-P [illegible], [illegible]
MTHFR [illegible]: MTHFR FAD '[illegible] R-5-P [illegible] '[illegible] C677T [illegible] MTHFR [illegible] - [illegible] C677T [illegible]	[illegible] MTHFR [illegible] C677T [illegible] '[illegible] R-5-P [illegible], [illegible], C677T-[illegible] MTHFR [illegible] '[illegible]	R-5-P → MTHFR [illegible] → [illegible] → 5-MTHF [illegible] '[illegible] ([illegible] 5-MTHF [illegible])[illegible] MTHFR [illegible]

[illegible]	[illegible] MTHFR [illegible]: R-5-P [illegible] MTHFR [illegible]	C677T [illegible] R-5-P [illegible] '[illegible]
[illegible] I [illegible] II (NADH [illegible]): [illegible] FAD-[illegible] ATP [illegible].	4-5 [illegible] ([illegible], [illegible], [illegible]) [illegible]: [illegible] ATP [illegible]. [illegible] - ATP [illegible].	R-5-P → [illegible] I [illegible] II [illegible] → [illegible] ATP [illegible] → [illegible], R-5-P [illegible] 24–48 [illegible]

[illegible]: R-5-P 25–50mg, [illegible]-5-[illegible] (FMN) [illegible], [illegible] '[illegible]' [illegible] '[illegible]-5-[illegible]' [illegible] ([illegible] R-5-P [illegible])[illegible] P-5-P [illegible], [illegible]

F.4 — [illegible] — [illegible]

[illegible] — [illegible] — [illegible]

[illegible], [illegible] NMDA [illegible], [illegible]-[illegible] '[illegible]:

[illegible]	[illegible]	[illegible], [illegible]?
[illegible] — [illegible]	[illegible] — [illegible]	[illegible]- [illegible]- [illegible]: [illegible]

	[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

1. NAC [illegible] [illegible] [illegible] [illegible] ([illegible] [illegible] [illegible] [illegible] [illegible])[illegible]

2. P-5-P CBS ([illegible]) [illegible] [illegible] [illegible] [illegible] → [illegible] [illegible] [illegible] [illegible]

3. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (GSH) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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	[illegible] [illegible]	[illegible] [illegible] [illegible]

[illegible].	[illegible], [illegible] (MDMA) [illegible] 14- [illegible] '[illegible] (polydrug) [illegible]	L-Tyrosine (500mg [illegible], [illegible]) [illegible] 6–14 [illegible] R-5-P [illegible], [illegible]- [illegible] 7 [illegible] "[illegible]" (UMP + DHA + CDP-Choline) D2 [illegible]
[illegible] ([illegible]) [illegible]	[illegible] GABA (L. rhamnosus), [illegible] ([illegible]) [illegible], [illegible] B [illegible] 4-5 [illegible]: [illegible] 10-14 [illegible]	[illegible] ([illegible] 6-14 [illegible]) L. rhamnosus [illegible] L. acidophilus [illegible] (gut) [illegible] '[illegible], [illegible] '[illegible]-[illegible]
MTHFR C677T [illegible].	C677T [illegible] 14 [illegible] R-5-P [illegible] MTHFR [illegible] — [illegible], [illegible], [illegible]	R-5-P [illegible] 14 [illegible] C677T [illegible] 5-MTHF [illegible] 14 [illegible] 1000mcg ([illegible]) '[illegible], [illegible] 7 [illegible] 14 [illegible] 8 µmol/L [illegible]

[illegible]·[illegible] — [illegible]-[illegible]: [illegible]

[illegible] — [illegible], [illegible]

14- [illegible] C-28 [illegible], [illegible]:

[illegible] [illegible] [illegible] [

		[illegible]
[illegible] 4 — [illegible] [illegible]	30 [illegible], "[illegible]" [illegible] [illegible] [illegible]: [illegible]-MTHFR [illegible] [illegible] [illegible] [illegible] [illegible] MTHFR [illegible]: 14 [illegible] [illegible] [illegible] [illegible] 5-MTHF [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

	MTHFR [illegible], [illegible], [illegible] [illegible] [illegible] 25mg [illegible]	[illegible] [illegible] MTHFR [illegible] [illegible], [illegible] R-5-P [illegible] [illegible] 25–50mg [illegible]
[illegible]	[illegible], [illegible] [illegible] [illegible] NMDA [illegible], [illegible] [illegible] [illegible], [illegible]	[illegible] [illegible] NAC [illegible] P-5-P/CBS [illegible] [illegible] [illegible]

[illegible]: [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [

[illegible] [illegible] [illegible] [illegible] [illegible] 8 scenes [illegible] [illegible] [illegible] [illegible]

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PLUR [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

H.5 — [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible], [illegible] [illegible]

[illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible] [illegible] [illegible]	[illegible]/[illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]

	[illegible] [illegible] [illegible]

[illegible] MDMA [illegible]-[illegible], [illegible] (DJ) [illegible] (peak) [illegible]

[illegible]—P-5-P, R-5-P, [illegible]—[illegible], [illegible] ([illegible]) [illegible], [illegible] ([illegible]) [illegible]— [illegible]

[illegible], [illegible] 30- [illegible]

H.8 — [illegible] — [illegible]

[illegible]—[illegible]— [illegible], [illegible]?

[illegible]	[illegible]
[illegible]	[illegible], [illegible], [illegible], [illegible] ([illegible])। [illegible]: [illegible], '[illegible]' [illegible] ([illegible])। [illegible] — [illegible], [illegible]
[illegible]	[illegible], [illegible], [illegible], [illegible]-[illegible]: [illegible], 'This Is Your Brain on Music.' [illegible], 'How to Change Your Mind.' MDMA-[illegible] '[illegible] MAPS [illegible]-[illegible] '[illegible].
[illegible]	[illegible] LGBTQ+ [illegible]-[illegible]: [illegible], 'Energy Flash.' [illegible], 'Love Saves the Day.'

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible], CYP450 [illegible] [illegible], [illegible] [illegible] [illegible] [illegible], NMDA [illegible], 72 [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]